

Technical Data Sheet

alpha-Aluminium oxide

Revision Date: 04/17/2024

Date Issued: 04/17/2024

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

Product name	Aluminium oxide powder
Product code	NO-0050-UP
CAS	1344-28-1
Supplier	IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D-74076 Heilbronn Germany
Telephone	+49 (0)7131 - 898390
Fax	+49 (0)7131 - 89839109
Emergency telephone	+49 (0)151-41255671

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Aluminium oxide, alpha
CAS No.	1344-28-1
Empirical Formula	Al ₂ O ₃
Molecular weight	101.96 g/mol
Purity	99.85%
Phase Structure	100% alpha
Grain Size	< 100 nm (X-ray)
Average Particle Size	200 nm (BET)
Specific Surface Area	~ 7.5 ± 1 m ² /g (BET)
Relative Density	3.97 g/cm ³

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Melting point 2045°C

Boiling point 2980°C

3 CONTENT OF IMPURITIES

Impurity	Content
Fe	≤ 0.01 wt%
Mg	≤ 0.01 wt%
Na	≤ 0.01 wt%
SiO ₂	≤ 0.015 wt%

4 OTHER INFORMATION

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